INDEX

ABBASSI, M. A. A simple method for the determination of the melting-point of fats and allied substances 1857
Acacatechin, supposed production of maclurin from (Healey) 388
Acetic acid, effect of, on deposition of liver-glycogen (Ponsford and Smedley-MacLean) 1340
Acetone bodies, Van Slyke's method of determination of, applied to small volumes of blood and urine (Nanavutty) 1391
Acidosis, nephritic, electrolyte distribution and acid-base equilibrium in the serum in cases of (Greene, Wakefield, Power and Keith) 1377
Acipenser sturio, *see* Sturgeon
ADAIR, G. S., *see* ROCHE, J.
ADAIR, M. E., *see* ROCHE, J.
ADAM, N. K., DANIELLI, J. F., HASLEWOOD, G. A. D. and MARRIAN, G. F. Surface films of oestrin derivatives 1233
Adrenaline, colorimetric determination of, in suprarenal gland extracts (Barker, Eastland and Evers) 2129
Adrenaline injections, effect of, on hexosemonophosphate content of rat muscle (Bell) 1601
Alcohol, effect of, on oxygen uptake of brain tissue (Robertson and Stewart) 65
Aldehydes, determination of (Clift and Cook) 1788
ALLCROFT, W. M., *see* GODDEN, W.
ALLOTT, E. N., DAUPHINEE, J. A. and HUETLEY, W. H. The determination of small quantities of iodine in blood 1665
Aluminium, biochemistry of (Mackenzie) 833
Aluminium, effect of, on growth and reproduction in the rat (Mackenzie) 833
Aluminium, intestinal absorption of (Mackenzie) 833
Aluminium, occurrence of, in the thyroid (Mackenzie) 833
Amino-acid absorption, relationship of, to protein synthesis in the mammary gland (Blackwood) 772
Amino-acid, effect of administration of, on blood-urea in abnormal mental states (Lockwood and Davies) 745
Amino-acids, basic, determination of, in small amounts of protein (Rosedale and da Silva) 369
Amino-acids, basic, of egg-albumin (Vickery and Shore) 1101
Amylase, influence of guanidine and derivatives on the action of (Mystkowski) 910
Amylase of germinated barley, effect of starch concentration upon rate of hydrolysis by (Hanes) 1406
Amylase—starch—protein systems, effect of salts on (Baumgarten) 539
Anaemia, pernicious, glutathione content of substances used in the treatment of (Fleming) 461
ANDRZEJEWSKI, H. Effect of addition of salts on the isoelectric point of proteins. III 1397
Anthocyanins (Robinson and Robinson) 1647
Antibacterial substance of Fleming, produced from glucose by *P. chrysogenum* (Clutterbuck, Lovell and Raistrick) 1907
Antigrowth factor in extracts of parathyroid glands (Eastland, Evers and Thompson) 2123
Antimony trichloride test for vitamin A, interpretation of the colour match in (Morgan) 377
Antiscorbutic activity of cortex of ox suprarenal (Harris and Ray) 2067; (Zilva) 2182
Antiscorbutic activity of lemon juice, non-specificity of reducing power as a measure of (Zilva) 1624
Antiscorbutic fraction of lemon juice. X (Johnson and Zilva) 871
Antiscorbutic potency of apples (Crane and Zilva) 2177
Antiscorbutic value of fresh lime juice (Hassan and Basili) 1846
Antiscorbutic, *see also* Vitamin C
Antiseptics, related to indan-1:3-dione (Robinson, Suthers and Walker) 1890
Apples, antiscorbutic potency of (Crane and Zilva) 2177
Arginine, determination of, by the Sakaguchi reaction (Jorpes and Thorén) 1504
Arginine, effect of administration of, on the excretion of creatinine (Shapiro and Zwarenstein) 1880
Armillaria mellea, action of, on wood (Campbell) 1829
ARMITAGE, E., PICKERING, J. W. and MATHUR, S. N. The inception of blood clotting 853
ARMSTRONG, A. R. and WALKER, E. The bromine reaction of pregnancy urine 143
ARMSTRONG, A. R., *see also* HARDING, V. J.
ASKEW, F. A., BOURDILLON, R. B. and WEBSTER, T. A. The production of vitamin D in a glow discharge 814
Asparagine, estimation of glutamine in presence of (Chibnall and Westall) 122
Asparagine, isolation of, from an enzymic digest of edestin (Damodaran) 235
Aspergillus niger, action of, on sodium hexosediphosphate in presence of toluene (Suthers and Walker) 317
Aspergillus versicolor, growth of, on higher paraffins (Hopkins and Chibnall) 133
Autoxidation of fatty acids (Ellis) 791
AYYADI, A. S. EL., *see* HASSAN, A.

Bacillus, specific carbohydrate of the tubercle (Gough) 248
Bacteria, effect of associated growth on lactic acid production by certain (Tatum, Peterson and Fred) 846
Bacterial enzymes liberating molecular hydrogen (Stephenson and Stickland) 712
Bacterial gelatinase, influence of the medium on production of (Haines) 323
Bacterial metabolism (Hewitt) 208, 464

BAILEY, K. and NORRIS, F. W. The nature and composition of the mucilage of the seed of white mustard (*Brassica alba*) 1609
BANKS, A. and HILDITCH, T. P. The body fats of the pig. II. Some aspects of the formation of animal depôt fats suggested by the composition of their glycerides and fatty acids 298
*iso*Barbituric acid, effect of, on excretion of neutral sulphur and ethereal sulphate by the dog (Lawrie and Price) 622
Barium, titrimetric method for the micro-determination of (King) 586
BARKER, J. H., EASTLAND, C. J. and EVERS, N. The colorimetric determination of adrenaline in suprarenal gland extracts 2129
BARNES, H., O'BRIEN, J. R. P. and READER, V. Vitamin B_4 2035
BARNES, H. and PETERS, R. A. The use of pure phosphotungstic acids in the precipitation of bases. I. Method of checking the purity of 1 : 24-phosphotungstic acid. II. The influence of hydrion concentration and some other factors on the precipitation of bases 2203
BARRETT, J. F. and JONES, E. B. A colorimetric method for the direct determination of urea in urine 1246
Bases, precipitation of, influence of hydrogen ion concentration and other factors on (Barnes and Peters) 2203
BASHA, M. K. A., *see* HASSAN, A.
Basic amino-acids, determination of, in small quantities of protein (Rosedale and da Silva) 369
BASILI, R., *see* HASSAN, A.
BASSINDALE, R., *see* SOUTHGATE, B. A.
BAUMGARTEN, G. Structure and enzyme reactions. XI. Action of salts in the systems: starch—amylase—proteins 539
BEHRE, J. A. A note on the determination of ergothioneine in blood-filtrates 458
BELL, D. J. The absence of abnormal forms of glucose from blood dialysates 349
BELL, D. J. Wood cellulose. I. Methylation of the α-cellulose 590
BELL, D. J. Wood cellulose. II. The depolymerised celluloses of wood and cotton 598
BELL, D. J. Wood cellulose. III. The "resistant portions" 609
BELL, D. J. Observations on the hexosemonophosphate content of mammalian muscle. I. Experiments on rats injected with adrenaline 1601
BELL, D. J. Wood cellulose. IV. Further investigation of the "resistant portion" of Thiriena pulp 1772
BELL, G. H. and PATERSON, A. R. C. A p_H chart 454
Benzidine reaction of blood, factors influencing, as applied to determination of haemoglobin (McFarlane and Hamilton) 1050
Benzidine test, simplified, for blood in clinical material (Ingham) 1124
BERNAL, J. D., *see* PIRIE, N. W.
BIERRING, E. and NIELSEN, E. The composition of the tissues of albino rats treated with alkaline anterior pituitary extracts 1015
Bile pigment, isolation of, with direct van den Bergh reaction (Griffiths) 1155
Bilirubin and the van den Bergh reaction (Fowweather) 165
BIRKINSHAW, J. H. and RAISTRICK, H. Studies in the biochemistry of micro-organisms. XXIII. Puberulic acid, $C_9H_6O_6$ and an acid $C_8H_4O_6$, new products of the metabolism of glucose by *Penicillium puberulum* Bainier and *Penicillium aurantio-virens* Biourge. With an appendix on certain dihydroxybenzenedicarboxylic acids 441
BLACKWOOD, J. H. The absorption of milk precursors by the mammary gland. III. The relation of amino-acid absorption to protein synthesis 772
BLACKWOOD, J. H. and STIRLING, J. D. An iodimetric method for the determination of iron in blood 353
BLACKWOOD, J. H. and STIRLING, J. D. The absorption of milk precursors by the mammary gland. I. The Kaufmann-Magne technique 357
BLACKWOOD, J. H. and STIRLING, J. D. The absorption of milk precursors by the mammary gland. II. The relation of blood-sugar absorption to lactose secretion 362
BLACKWOOD, J. H. and STIRLING, J. D. The absorption of milk precursors by the mammary gland. IV. Aspects of the phosphorus metabolism of the mammary gland 778
BLACKWOOD, J. H. and STIRLING, J. D. The absorption of milk precursors by the mammary gland. V. Physico-chemical aspects of milk secretion 1127
Blood, action of bone phosphatase on phosphoric esters of (King) 1697
Blood clotting, inception of (Armitage, Pickering and Mathur) 853
Blood, cow's, changes in composition of, at time of calving, and comparison of, with that of calf (Godden and Allcroft) 1640
Blood, determination of acetone bodies in small volumes of (Nanavutty) 1391
Blood, determination of small quantities of iodine in (Allott, Dauphinee and Hurtley) 1665
Blood-dialysates, absence of abnormal forms of glucose from (Bell) 349
Blood-filtrates, determination of ergothioneine in (Behre) 458
Blood-filtrates, influence of glutathione on reduction and rotation of (Groen and Meyer) 624
Blood, hyperglycaemic, of diabetics without glycosuria, reducing substances of (Rabinowitch) 963
Blood, iodimetric determination of iron in (Blackwood and Stirling) 353
Blood, isolation of ergothioneine from (Williamson and Meldrum) 815
Blood-serum in the rabbit, variations in the calcium of (Bourne and Campbell) 183
Blood, sheep's, reciprocal relationship of calcium and inorganic phosphorus of (Fraser) 2166
Blood, simplified benzidine test for, in urine and other clinical material (Ingham) 1124
Blood-sugar absorption, relation of, to lactose secretion (Blackwood and Stirling) 362
Blood, sugar in, and lactic acid in brain, relation of (Holmes and Sherif) 381

Blood-urea changes in abnormal mental states after administration of amino-acid (Lockwood and Davies) 745
Blood, volatile chlorine of (Morris and Morris) 2015
Boas Fixsen, M. A., *see* Fixsen, M. A. B.
Bone analysis and radiography, comparison of, in the estimation of vitamin D (Bourdillon and Bruce) 506
Bones of rats on rachitogenic diet, relation of graded doses of vitamin D to ash content of (Hume, Pickersgill and Gaffikin) 488
Bourdillon, R. B. and Bruce, H. M. The determination of vitamin D. II. A comparison of radiography and bone analysis in the estimation of vitamin D 506
Bourdillon, R. B., Bruce, H. M. and Webster, T. A. The determination of vitamin D. III. The stability of preparations of vitamin D 522
Bourdillon, R. B., *see also* Askew, F. A.
Bourne, M. C. and Campbell, D. A. Variations of serum-calcium in the rabbit 183
Boyland, E. The precipitation and protection of vanadic acid by serum-proteins 1383
Brain, oxidations by the (Quastel and Wheatley) 725
Brain, relation of lactic acid in, to sugar in blood (Holmes and Sherif) 381
Brain tissue, effect of alcohol on oxygen uptake of (Robertson and Stewart) 65
Brain tissue, effects of narcotics on dehydrogenations by (Davies and Quastel) 1672
Brain tissue, p_H of (Holmes) 2010
Brassica alba, *see* Mustard, white
Bromine reaction of pregnancy urine (Armstrong and Walker) 143
Brown, A. M., *see* Smith, M. L.
Bruce, H. M., *see* Bourdillon, R. B.
Brussels sprout, wax metabolism in the leaves of (Sahai and Chibnall) 403
Buston, H. W. and Nanji, H. R. The preparation of methyl esters of pectic acid 2090
Buxton, P. A. The proportion of skeletal tissue in insects 829

Cabbage, calcium content of (Cowell) 1422
Calcium and inorganic phosphorus of sheep's blood, reciprocal relationship of (Fraser) 2166
Calcium and magnesium, ultra-filtration of, from human sera (Watchorn and McCance) 54
Calcium content of cabbage (Cowell) 1422
Calcium, variations of, in the blood-serum of the rabbit (Bourne and Campbell) 183
Calf, comparison of blood of, with that of dam (Godden and Allcroft) 1640
Cambden, M. R., *see* Coward, K. H.
Campbell, D. A., *see* Bourne, M. C.
Campbell, W. G. The chemistry of the white rots of wood. III. The effect on wood substance of *Ganoderma applanatum* (Pers.) Pat., *Fomes fomentarius* (Linn.) Fr., *Polyporus adustus* (Willd.) Fr., *Pleurotus ostreatus* (Jacq.) Fr., *Armillaria mellea* (Vahl.) Fr., *Trametes pini* (Brot.) Fr., and *Polystictus abietinus* (Dicks.) Fr. 1829
Cancer, hyperglycaemia of (Woodward and Fry) 889
Capillary activity of lecithin-cholesterol dispersions (Jones and Lewis) 633
Capillary behaviour of glycine (Jones and Lewis) 638
Carbohydrate-free diet, metabolism of animals on a (Hynd and Rotter) 578
Carbohydrate metabolism after starvation (Goldblatt and Ellis) 991
Carbohydrate metabolism in human trypanosomiasis (Wormall) 1777
Carbohydrate, specific, of the tubercle bacillus (Gough) 248
Carbohydrates and lactic acid of haddock muscle after death (Macpherson) 80
Carbon dioxide retention of serum, use of, in measurement of tissue glycolysis (Dickens and Šimer) 90
Carotene, conversion of, into vitamin A in the cow (Moore) 1
Carotene, isomerisation of, by antimony trichloride (Gillam, Heilbron, Morton and Drummond) 1174
Case, E. M. The determination of pyruvic acid 753
Case, E. M. The origin of pyruvic acid in muscle 759
Caseinogen, hydrolysis of, by pepsin and by trypsin-kinase (Stirling and Wishart) 1989
Castrated male rats, vitamin A deficiency in (Sampson and Korenchevsky) 1542
Castration, urinary creatinine after (Schrire and Zwarenstein) 118
Catalytic oxidation of uric acid (Dobrowolska) 543
Cellulase from symbiotic intestinal flagellates of termites and the roach, *C. punctulatus* (Trager) 1762
Cellulose, cotton (Bell) 598
Cellulose, determination of, in soil (Daji) 1275
Cellulose, wood (Bell) 590, 598, 609, 1772
Cerebrospinal fluid, inorganic constituents of. (Watchorn and McCance) 54
Channon, H. J. and Saby, M. K. El. Fat metabolism of the herring 2021
Chemistry of cooking (Sinoda and Kodera) 650
Chibnall, A. C. and Westall, R. G. The estimation of glutamine in the presence of asparagine 122
Chibnall, A. C., *see also* Damodaran, M., Hopkins, S. J., Smith, J. A. B., Miller, E. J., *and* Sahai, P. N.
Chick, H. and Jackson, H. M. Note on the International Standard for the antineuritic vitamin B_1 1223
Cheese-ripening studies (Sadler, Eagles and Pendray) 1532
Choleic acids (Sobotka and Goldberg) 555; (Sobotka and Kahn) 898; (Sobotka and Goldberg) 905
Choleic acids; keto-enol tautomerism and co-ordination compounds (Sobotka and Kahn) 898
Choleic acids, separation of optical antipodes of, by means of co-ordination compounds (Sobotka and Goldberg) 905
Choline-esterase (Stedman, Stedman and Easson) 2056

Clift, F. P. and Cook, R. P. A method of determination of some biologically important aldehydes and ketones, with special reference to pyruvic acid and methylglyoxal 1788
Clift, F. P. and Cook, R. P. The 2 : 4-dinitrophenylhydrazones of some ketonic acids of biological importance 1800
Clift, F. P. and Cook, R. P. Triose dehydrogenase. I 1804
Clotting, blood, inception of (Armitage, Pickering and Mathur) 853
Clutterbuck, P. W., Lovell, R. and Raistrick, H. Studies in the biochemistry of micro-organisms. XXVI. The formation from glucose by members of the *Penicillium chrysogenum* series of a pigment, an alkali-soluble protein and penicillin—the antibacterial substance of Fleming 1907
Clutterbuck, P. W., Oxford, A. E., Raistrick, H. and Smith, G. Studies in the biochemistry of micro-organisms. XXIV. The metabolic products of the *Penicillium brevi-compactum* series 1441
Cocksfoot grass, glyceride fatty acids of (Smith and Chibnall) 218
Cocksfoot grass, phosphatides of (Smith and Chibnall) 1345
Cod-liver oil, determination of vitamin A in, by measurement of absorption in the ultra-violet (Coward, Dyer and Morton) 1593
Cod-liver oil, unsaponifiable fraction of (Weidemann) 264
Co-enzyme for urease, question of (Sumner and Kirk) 551
Collagen fibre-bundles, single, swelling of (Marriott) 46
Colloid, amphoteric, experimental demonstration of movements and precipitations of, in electric field (Penfold and Sutherland) 1839
Cook, R. P., *see* Clift, F. P.
Cooking, chemistry of (Sinoda and Kodera) 650
Co-ordination compounds, choleic acid, keto-enol tautomerism of (Sobotka and Kahn) 898
Co-ordination compounds, choleic acid, separation of optical antipodes by means of (Sobotka and Goldberg) 905
Copper, microcolorimetric determination of, in organic substances (McFarlane) 1022
Cotton cellulose (Bell) 598
Cow, changes in the composition of blood of, at time of calving, and comparison of blood of, with that of calf (Godden and Allcroft) 1640
Coward, K. H. Variation in growth response of rats in vitamin A tests compared with the variation in rats growing normally 691
Coward, K. H., Cambden, M. R. and Lee, E. M. A stock diet for rats bred for vitamin tests 679
Coward, K. H., Dyer, F. J. and Morton, R. A. The determination of vitamin A in cod-liver oils (*a*) biologically, (*b*) chemically, (*c*) physically, with a statistical examination of the results. II. Further evidence that the intensity of absorption at 328 $m\mu$ gives the best agreement with the biological measure of vitamin A in cod-liver oils 1593
Coward, K. H., Key, K. M. and Morgan, B. G. E. The quantitative determination of vitamin D by means of its growth-promoting property 1585
Cowell, S. J. A note on the calcium content of cabbage 1422
Crane, M. B. and Zilva, S. S. The antiscorbutic potency of apples. V 2177
Creatinine, effect of administration of arginine and histidine on excretion of (Shapiro and Zwarenstein) 1880
Creatinine, urinary, after castration (Schrire and Zwarenstein) 118
Creatinine, urinary, effect of injection of suspensions of testes and testicular extracts on, after castration (Schrire and Zwarenstein) 1886
Cryptocercus punctulatus, cellulase from intestinal flagellates of (Trager) 1762
Cryptorchidism, effect of, on the gaseous and nitrogenous metabolism of rats (Korenchevsky and Dennison) 429
Cunningham, R. N. Studies on the chemical nature of secretin 1081
Cysteine, colorimetric determination of (Lugg) 2144, 2160
Cysteine, iodimetric determination of (Lucas and King) 2076
Cystine, colorimetric determination of (Lugg) 2144, 2160
i-Cystine, metabolism of, in the rat (Lawrie) 435

Daji, J. A. The determination of cellulose in soil 1275
Damodaran, M. The isolation of asparagine from an enzymic digest of edestin 235
Damodaran, M., Jaaback, G. and Chibnall, A. C. The isolation of glutamine from an enzymic digest of gliadin 1704
Danielli, J. F., *see* Adam, N. K.
Dann, W. J. The vitamin D content of red palm oil 151
Dann, W. J. The oxidation of vitamin A *in vitro*. Influence of the solvent 666
Dann, W. J. The transmission of vitamin A from parents to young in mammals 1072
Daoud, K. M. The reserve polysaccharide of the seeds of fenugreek: its digestibility and its fate during germination 255
Dauphinee, J. A., *see* Allott, E. N.
Davies, D. R. and Davies, W. C. The colorimetric determination of phosphorus in the presence of interfering substances 2046
Davies, D. R. and Quastel, J. H. Dehydrogenations by brain tissue. The effects of narcotics 1672
Davies, D. R., *see* Lockwood, M. R.
Davies, W. C., *see* Davies, D. R.
Dawson, E. R. The selective fermentation of glucose and fructose by yeast 531
Dehydrogenase, glucose, product of oxidation of glucose by (Harrison) 1295
Dehydrogenase, triose (Clift and Cook) 1804
Dehydrogenations by brain tissue, effects of narcotics on (Davies and Quastel) 1672
Denaturation of globin (Meldrum) 162
Denaturation of proteins (Loughlin and Lewis) 476
Dennison, M., *see* Korenchevsky, V.

Dialuric acid, autoxidation of (Richardson) 1959
Dickens, F. and Greville, G. D. The metabolism of normal and tumour tissue. VI. The conversion of fructose and glucose to lactic acid by embryonic tissues 1251
Dickens, F. and Greville, G. D. The metabolism of normal and tumour tissue. VII. The anaerobic conversion of fructose into lactic acid by tumour and adult normal tissues 1546
Dickens, F. and Šimer, F. Metabolism of normal and tumour tissue. V. A note on the carbon dioxide retention of serum: its use in the measurement of tissue glycolysis 90
Diet, stock, for rats bred for vitamin tests (Coward, Cambden and Lee) 679
Diethyldithiocarbamate, sodium, use of, in determination of copper in organic substances (McFarlane) 1022
m-Digallic acid, biological synthesis of (Nierenstein) 1093
Dihydroxybenzenedicarboxylic acids (Birkinshaw and Raistrick) 441
3:5-Dihydroxyphthalic acid, formed from glucose by *P. brevi-compactum* and related species (Oxford and Raistrick) 1902
2:4-Dinitrophenylhydrazones of ketonic acids (Clift and Cook) 1800
Diphtheria toxin and antitoxin, effect of contact with certain surfaces on solutions of (Moloney and Taylor) 1754
Disulphides, colorimetric determination of (Lugg) 2160
Dixon, K. C. and Harrison, K. Glucosone 1954
Dobrowolska, Z. Studies on the catalytic oxidation of uric acid 543
Dodds, E. C. and Gallimore, E. J. The determination of small quantities of oxalic acid 1242
Drummond, J. C., *see* Gillam, A. E. *and* Heilbron, I. M.
Dunlop, D. M., *see* Lyon, D. M.
Dyer, F. J., *see* Coward, K. H.
Dyestuffs, action of, on urease (Quastel) 1685

Eagles, B. A., *see* Sadler, W.
Easson, L. H., *see* Stedman, E.
Eastland, C. J., Evers, N. and Thompson, J. H. Some extracts of parathyroid glands containing an antigrowth factor. I 2123
Eastland, C. J., *see also* Barker, J. H.
Edestin, isolation of asparagine from an enzymic digest of (Damodaran) 235
Edisbury, J. R., Gillam, A. E., Heilbron, I. M. and Morton, R. A. Absorption spectra of substances derived from vitamin A 1164
Egg-albumin, crystalline, basic amino-acids of (Vickery and Shore) 1101
Egg-albumin, effect of addition of electrolytes on viscosity of solutions of (Loughlin) 1557
Elliott, K. A. C. Milk peroxidase. Its preparation, properties and action with H_2O_2 on metabolites. With a method for determining small amounts of H_2O_2 in complex mixtures 10
Elliott, K. A. C. Oxidations catalysed by horseradish- and milk-peroxidases 1281
Ellis, G. W. Autoxidation of the fatty acids. I. The oxygen uptake of elaidic, oleic and stearic acids 791
Ellis, R. W. B., *see* Goldblatt, M. W.
Embryonic tissues, conversion of fructose and glucose into lactic acid by (Dickens and Greville) 1251
Ender, F. The reaction of fish-liver oils with antimony trichloride. (Preliminary communication) 1118
Enterokinase, formation of, from a precursor in the pancreas (Pace) 640, 1566
Enzyme reactions, structure and (Baumgarten) 539
Enzymes, bacterial, liberating molecular hydrogen (Stephenson and Stickland) 712
Enzymic digest of edestin, isolation of asparagine from (Damodaran) 235
Equol (Marrian and Haslewood) 1227
Ergothioneine, determination of, in blood-filtrates (Behre) 458
Ergothioneine, isolation of, from blood (Williamson and Meldrum) 815
Erythrocyte membrane, protein constituent of (Jorpes) 1488
Erythrocytes, mammalian, reduction of glutathione in (Meldrum) 817
Erythrocytes, permeability of (Woodhouse and Pickworth) 309
Essential oils and heat absorption (Nicol) 658
Esterases, activity of, inhibitory action of urethanes on (Stedman and Stedman) 1214
Evans, H. The pentosan content of *Kleinia articulata* 1095
Evers, N., *see* Barker, J. H. *and* Eastland, C. J.

Fat, effect of pituitary on distribution of (Hynd and Rotter) 578
Fat metabolism in fishes (Lovern) 1978, 1985
Fat metabolism of the herring (Channon and Saby) 2021
Fat of fish, fatty acid composition of (Lovern) 1978
Fat, peritoneal, pancreatic and liver, of the sturgeon (Lovern) 1985
Fats, animal depôt, formation and composition of (Banks and Hilditch) 298
Fats, determination of melting-point of (Abbassi) 1857
Fatty acids, autoxidation of (Ellis) 791
Fenugreek seeds, reserve polysaccharide of (Daoud) 255
Fermentation, selective, of glucose and fructose by yeast (Dawson) 531
Fibre-bundles, swelling of single collagen (Marriott) 46
Fine, J. The iodimetric method of determining lactose in milk 569
Fish-liver oils, unsaponifiable fraction of. II (Weidemann) 264
Fish meals, value of, for growth and calcification (Kernot and Speer) 1435
Fixsen, M. A. B. and Jackson, H. M. The biological values of proteins. III. A further note on the method used to measure the nitrogenous excretion of rats 1919
Fixsen, M. A. B. and Jackson, H. M. The biological values of proteins. IV. The biological values of the proteins of wheat, maize and milk 1923

FLEMING, R. The glutathione content of anti-anaemic substances used in the treatment of pernicious anaemia 461
FOLLEY, S. J. The nature of plastein 99
Fomes fomentarius, action of, on wood (Campbell) 1829
FOWWEATHER, F. S. Bilirubin and the van den Bergh reaction 165
FRASER, A. H. H. The reciprocal relationship of calcium and inorganic phosphorus of the blood of sheep 2166
FRED, E. B., *see* TATUM, E. L.
Fructose, anaerobic conversion of, into lactic acid by normal and tumour tissue (Dickens and Greville) 1546
Fructose and glucose, selective fermentation of, by yeast (Dawson) 531
Fructose, conversion of, into lactic acid by embryonic tissue (Dickens and Greville) 1251
FRY, E. G., *see* WOODWARD, G. E.
Fumaric acid, effect of, on deposition of liver-glycogen (Ponsford and Smedley-MacLean) 1340
Fungi, mould, formation of organic acids by (Suthers and Walker) 317
FUNK, C. and ZEFIROW, P. The preparation of gonadotropic hormones from normal urine and urine of pregnancy 619

Gadus aeglefinus, *see* Haddock
GAFFIKIN, M. M., *see* HUME, E. M.
GALLIMORE, E. J., *see* DODDS, E. C.
Ganglion, trigeminal, metabolism of (Holmes) 2005
Ganoderma applanatum, action of, on wood (Campbell) 1829
Gaseous and nitrogenous metabolism of rats, effect of cryptorchidism on (Korenchevsky and Dennison) 429
GAVIN, G., *see* MCHENRY, E. W.
Gelatinase, bacterial, influence of the medium on the production of (Haines) 323
GILLAM, A. E., HEILBRON, I. M., MORTON, R. A. and DRUMMOND, J. C. The isomerisation of carotene by means of antimony trichloride 1174
GILLAM, A. E., *see also* EDISBURY, J. R.
GIRŠAVIČIUS, J. O. Some properties of the enzyme glyoxalase 155
Gliadin, isolation of glutamine from an enzymic digest of (Damodaran, Jaaback and Chibnall) 1704
Globin, denatured (Meldrum) 162
Globin, osmotic pressure of (Roche, Roche, Adair and Adair) 1811
Glucose, absence of abnormal forms of, from blood-dialysates (Bell) 349
Glucose and fructose, selective fermentation of, by yeast (Dawson) 531
Glucose breakdown by pneumococcus variants (Hewitt) 464
Glucose, conversion of, into lactic acid by embryonic tissue (Dickens and Greville) 1251
Glucose, determination of, in broth and in aqueous and peptone solutions (Smith) 1459
Glucose fermentation, relation of thiol compounds to (Quastel and Wheatley) 2169
Glucosone (Dixon and Harrison) 1954
Glutamine, estimation of, in presence of asparagine (Chibnall and Westall) 122
Glutamine, isolation of, from an enzymic digest of gliadin (Damodaran, Jaaback and Chibnall) 1704
Glutathione content of anti-anaemic substances (Fleming) 461
Glutathione, crystallography of (Pirie and Bernal) 75
Glutathione, cuprous (Pirie and Bernal) 75
Glutathione, influence of, on reduction and rotation of blood-filtrates (Groen and Meyer) 624
Glutathione, reduction of, by a liver system (Mann) 785
Glutathione, reduction of, in mammalian erythrocytes (Meldrum) 817
Glyceride fatty acids of forage grasses (Smith and Chibnall) 218
Glycerides of depôt fats of the pig (Banks and Hilditch) 298
Glycine, capillary behaviour of (Jones and Lewis) 638
Glycogen, effect of pituitary on distribution of (Hynd and Rotter) 578
Glycogen, liver, effect of succinic, fumaric, malic and acetic acids on deposition of (Ponsford and Smedley-MacLean) 1340
Glycolysis, tissue, use of carbon dioxide retention of serum in measurement of (Dickens and Simer) 90
Glycosuria, afternoon (Harding, Selby and Armstrong) 957
Glyoxalase, properties of (Giršavičius) 155
GODDEN, W. and ALLCROFT, W. M. Changes in the composition of cow's blood at the time of calving and a comparison of the blood of the calf with that of its dam 1640
GOLDBERG, A., *see* SOBOTKA, H.
GOLDBLATT, M. W. and ELLIS, R. W. B. The metabolism of carbohydrate after starvation 991
Gonadotropic hormones, preparation of, from normal urine and urine of pregnancy (Funk and Zefirow) 619
Gonads, influence of, on protein metabolism (Schrire and Zwarenstein) 118
GOUGH, G. A. C. The specific carbohydrate of the tubercle bacillus 248
GOUGH, G. A. C. A polysaccharide from the pollen of Timothy grass (*Phleum pratense*) 1291
GRAETZ, D., *see* KORENCHEVSKY, V.
GRANT, R. L., SMITH, S. and ZILVA, S. S. Narcotine as the alleged precursor of vitamin C. 1628
Grass, cocksfoot, phosphatides of (Smith and Chibnall) 1345
Grasses, forage, glyceride fatty acids of (Smith and Chibnall) 218
Grasses, proteins of (Miller and Chibnall) 392
GREENE, C. H., WAKEFIELD, E. G., POWER, M. H. and KEITH, N. M. The electrolyte distribution and the acid-base equilibrium in the serum in cases of nephritis and nephritic acidosis 1377
GREENWALD, I. Metabolism in tetany 954
GREVILLE, G. D., *see* DICKENS, F.

GRIFFITHS, W. J. The isolation from bile of a pigment having a direct van den Bergh reaction 1155
GROEN, J. and MEYER, J. W. The influence of glutathione on reduction and rotation of blood-filtrates 624
GROSS, C., *see* SMITH, M. L.
Growth, dietary principle stimulating (Mapson) 970
Growth response of rats, variation of, in vitamin A tests (Coward) 691
Guanidine and derivatives, influence of, on action of amylase (Mystkowski) 910
Guanidine, method for isolation of (Saunders) 801
GULLAND, J. M. The spermicidal activity of quinones and quinols 32
GULLAND, J. M. and NEWTON, W. H. The oxytocic principle of the posterior lobe of the pituitary gland. I 337

HAAS, P. and HILL, T. G. The occurrence of sugar alcohols in marine algae. II. Sorbitol 987
Haddock muscle, after death, carbohydrates and lactic acid of (Macpherson) 80
Haemoglobin, micro-determination of, by blood-benzidine reaction (McFarlane and Hamilton) 1050
HAINES, R. B. The influence of the medium on the production of bacterial gelatinase 323
HAMILTON, R. C. M., *see* MCFARLANE, W. D.
HANES, C. S. Studies on plant amylases. I. The effect of starch concentration upon the velocity of hydrolysis by the amylase of germinated barley 1406
HARDING, V. J., SELBY, D. L., and ARMSTRONG, A. R. Afternoon glycosuria 957
HARRIS, L. J. and RAY, S. N. Vitamin C and the suprarenal cortex. I. Antiscorbutic activity of ox suprarenal 2067
HARRISON, D. C. Note on an accelerating action of uric acid on the xanthine oxidase system 472
HARRISON, D. C. The product of the oxidation of glucose by glucose dehydrogenase 1295
HARRISON, K. Note on the use of sinalbin as an indicator 88
HARRISON, K., *see also* DIXON, K. C.
HASLEWOOD, G. A. D., *see* ADAM, N. K. *and* MARRIAN, G. F.
HASSAN, A., and AYYADI, M. A. S. EL. The effect of hydrolysis on the sugars of normal urine 1851
HASSAN, A. and BASHA, M. K. A. A preliminary note on a prolamin isolated from a legume seed 1843
HASSAN, A. and BASILI, R. The antiscorbutic value of fresh lime juice 1846
HEALEY, M. Note on the supposed production of maclurin from acacatechin 388
Heat absorption, essential oils and (Nicol) 658
HEILBRON, I. M., HESLOP, R. N., MORTON, R. A., WEBSTER, E. T., REA, J. L. and DRUMMOND, J. C. Characteristics of highly active vitamin A preparations 1178
HEILBRON, I. M., MORTON, R. A. and WEBSTER, E. T. The structure of vitamin A 1194
HEILBRON, I. M., *see also* EDISBURY, J. R. *and* GILLAM, A. E.
Hemicelluloses, residual, of rotted straw (Norman) 573
Herring, fat metabolism of (Channon and Saby) 2021
HESLOP, R. N., *see* HEILBRON, I. M.
HEWITT, L. F. Bacterial metabolism. I. Lactic acid production by haemolytic streptococci 208
HEWITT, L. F. Bacterial metabolism. II. Glucose breakdown by pneumococcus variants and the effect of phosphate thereon 464
Hexosediphosphate, sodium, action of *Aspergillus niger* on (Suthers and Walker) 317
Hexosemonophosphate content of rat muscle, effect of adrenaline injections on (Bell) 1601
Hexosemonophosphoric esters (R. bison) 2191
HILDITCH, T. P., *see* BANKS, A.
HILL, T. G., *see* HAAS, P.
Histaminase, reaction of, with histamine; purification of, and species distribution of (McHenry and Gavin) 1365
Histidine, colorimetric determination of (Jorpes) 1507
Histidine, effect of administration of, on the excretion of creatinine (Shapiro and Zwarenstein) 1880
HOLMES, E. G. The metabolic activity of the trigeminal ganglion 2005
HOLMES, E. G. Observations on the p_H of brain tissue 2010
HOLMES, E. G. and SHERIF, M. A. F. The relationship between sugar in blood and lactic acid in brain 381
HOPKINS, S. J. and CHIBNALL, A. C. Growth of *Aspergillus versicolor* on higher paraffins 133
Hormones, gonadotropic, preparation of, from normal urine and urine of pregnancy (Funk and Zefirow) 619
Hormones, gonadotropic, purification and properties of (Marshall) 1358
Hormone, testicular, assay of preparations of (Korenchevsky) 413
Hormone, testicular, castrated rats for the assay of (Korenchevsky) 1300
Hormone, testicular, rat unit of (Korenchevsky, Dennison and Kohn-Speyer) 2097
Hormone, testicular, response of castrated male rats to the injection of (Korenchevsky, Dennison and Schalit) 1306
Hormone, yield of testicular, influence of freshness of testes and of desiccation of testicular tissue on (Korenchevsky, Schalit and Graetz) 423
HOUTZ, R. C., *see* NORMAN, A. G.
HUME, E. M., PICKERSGILL, M. and GAFFIKIN, M. M. The determination of vitamin D. I. The relationship between graded doses of a standard solution of vitamin D, administered to young rats on a rachitogenic diet, and the ash content of their bones 488
HURST, R. H. p_H of blood of psychotics measured by the glass electrode 1536
HURTLEY, W. H., *see* ALLOTT, E. N.
Hydrogen ion concentration of blood of psychotics, measured by the glass electrode (Hurst) 1536

Hydrogen ion concentration of brain tissue (Holmes) 2010
Hydrogenlyases (Stephenson and Stickland) 712
Hydrogenlyases, factors concerned in the production of (Yudkin) 1859
Hydrogen peroxide, action of, on metabolites with milk peroxidase (Elliott) 10
Hydrogen peroxide, determination of small amounts of (Elliott) 10
HYND, A. and ROTTER, D. L. Studies on the metabolism of animals on a carbohydrate-free diet. IV. The effect of pitressin and pitocin on the distribution of fat and glycogen in the liver and muscles of albino rats 578
HYND, A. and ROTTER, D. L. Further observations on the distribution of fat and glycogen after the subcutaneous injection of extracts of the posterior pituitary gland 1633
Hyperglycaemia of cancer (Woodward and Fry) 889

Immunological properties of alkali-treated proteins (Johnson and Wormall) 1202
Indan-1 : 3-dione, antiseptics related to (Robinson, Suthers and Walker) 1890
Indicator, use of sinalbin as an (Harrison) 88
INGHAM, J. An improved and simplified benzidine test for blood in urine and other clinical material 1124
Insects, proportion of skeletal tissue in (Buxton) 829
Iodimetric determination of iron in blood (Blackwood and Stirling) 353
Iodimetric determination of lactose in milk (Fine) 569
Iodine, determination of small quantities of, in blood (Allott, Dauphinee and Hurtley) 1665
Iron, determination of, in organic substances (McFarlane) 1034
Iron in blood, iodimetric determination of (Blackwood and Stirling) 353
Iron in relation to tyrosinase (Pugh) 106
Isoelectric point of proteins, effect of addition of salts on (Andrzejewski) 1397

JAABACK, G., *see* DAMODARAN, M.
JACKSON, H. M., *see* CHICK, H. *and* FIXSEN, M. A. B.
JOHNSON, L. R. and WORMALL, A. The immunological properties of alkali-treated proteins 1202
JOHNSON, S. W. and ZILVA, S. S. The antiscorbutic fraction of lemon juice. X 871
JONES, E. B., *see* BARRETT, J. F.
JONES, R. and LEWIS, W. C. M. The physicochemical behaviour of lecithin. II. The capillary activity of lecithin-cholesterol dispersions 633
JONES, R. and LEWIS, W. C. M. Note on the capillary behaviour of glycine 638
JORPES, E. The protein component of the erythrocyte membrane or stroma 1488
JORPES, E. The colorimetric determination of histidine 1507
JORPES, E. and THORÉN, S. The use of the Sakaguchi reaction for the quantitative determination of arginine 1504
JOWETT, M. The reactions of lead compounds with serum and serum-models 2108

KAHN, J., *see* SOBOTKA, H.
Kaufmann-Magne technique, the (Blackwood and Stirling) 357
KEITH, N. M., *see* GREENE, C. H.
KERNOT, J. C. and SPEER, N. E. The relative values of the meals from oily and white fish for growth and calcification 1435
Ketodihydroxyoestrin, conversion of trihydroxyoestrin into (Marrian and Haslewood) 25
Ketones, determination of (Clift and Cook) 1788
Ketonic acids, dinitrophenylhydrazones of (Clift and Cook) 1800
KEY, K. M. and MORGAN, B. G. E. The determination of vitamin D 196
KEY, K. M., *see also* COWARD, K. H.
Kidney, ox, uricase of (Truszkowski) 285
KING, E. J. The colorimetric determination of phosphorus 292
KING, E. J. A titrimetric method for the microdetermination of barium 586
KING, E. J. The action of bone phosphatase on the esters of phosphoric acid of the blood 1697
KING, E. J., *see also* LUCAS, C. C.
KIRK, J. S., *see* SUMNER, J. B.
Kleinia articulata, pentosan content of (Evans) 1095
KODERA, S., *see* SINODA, O.
KOHN-SPEYER, A., *see* KORENCHEVSKY, V.
KORENCHEVSKY, V. The assay of testicular hormone preparations 413
KORENCHEVSKY, V. Castrated rats for the assay of testicular hormone 1300
KORENCHEVSKY, V. and DENNISON, M. A technique for tudying the metabolism of rats 147
KORENCHEVSKY, V. and DENNISON, M. The influence of cryptorchidism on the gaseous and nitrogenous metabolism of rats 429
KORENCHEVSKY, V., DENNISON, M. and KOHN-SPEYER, A. The rat unit of testicular hormone 2097
KORENCHEVSKY, V., DENNISON, M. and SCHALIT, R. The response of castrated male rats to the injection of testicular hormone 1306
KORENCHEVSKY, V., SCHALIT, R. and GRAETZ, D. The influence of the freshness of the testes and of desiccation of the testicular tissue on the yield of testicular hormone 423
KORENCHEVSKY, V., *see also* SAMPSON, M. M.

Lactation, dietary principle stimulating (Mapson) 970
Lactation, mineral metabolism during (Toverud and Toverud) 1424
Lactic acid, anaerobic conversion of fructose into, by normal and tumour tissue (Dickens and Greville) 1546
Lactic acid and carbohydrates of haddock muscle after death (Macpherson) 80
Lactic acid bacteria, nitrogen requirement of (Sadler, Eagles and Pendray) 1532
Lactic acid in brain, relation of, to sugars in blood (Holmes and Sherif) 381
Lactic acid production by certain bacteria, effect of associated growth on (Tatum, Peterson and Fred) 846

Lactic acid production by haemolytic streptococci (Hewitt) 208
Lactic acid production in muscle, determination of (Mawson and Ritchie) 615
Lactose, iodimetric determination of, in milk (Fine) 569
Lactose secretion, relation of blood-sugar absorption to (Blackwood and Stirling) 362
LANGE, A. C., *see* WEST, E. S.
LAWRIE, N. R., The metabolism of *i*-cystine in the rat 435
LAWRIE, N. R. and PIRIE, N. W. Studies in the sulphur metabolism of the dog. X. The effect of *iso*barbituric acid on the excretion of neutral sulphur and ethereal sulphate 622
Lead compounds, reaction of, with serum and serum-models (Jowett) 2108
Leaves of the Brussels sprout, wax metabolism in the (Sahai and Chibnall) 403
Lecithin-cholesterol dispersions, capillary activity of (Jones and Lewis) 633
Lecitho-vitellin, alkaline hydrolysis of (McFarlane) 1061
LEE, E. M., *see* COWARD, K. M.
Lemon juice, antiscorbutic fraction of (Johnson and Zilva) 871
Lemon juice, independence of reducing power and antiscorbutic value of (Zilva) 1624
LEWIS, W. C. M., *see* JONES, R.
Lime juice, fresh, antiscorbutic value of (Hassan and Basili) 1846
Lipoids, physico-chemical studies of, in relation to salts, drugs and proteins (Spiegel-Adolf) 2183
Liver, effect of pituitary on distribution of fat and glycogen in (Hynd and Rotter) 578
Liver, sheep, effects of freezing and storage on vitamin C contents of (Mills) 704
Liver system, reduction of glutathione by (Mann) 785
LOCKWOOD, M. R. and DAVIES, D. R. Blood-urea changes in abnormal mental states after the administration of amino-acid 745
LOUGHLIN, W. J. The denaturation of proteins. IX. The effect of the addition of electrolytes on the viscosity of solutions of crystalline egg-albumin 1557
LOUGHLIN, W. J. and LEWIS, W. C. M. The denaturation of proteins. VIII. The effect of denaturation on the viscosity of the solutions of certain proteins 476
LOVELL, R., *see* CLUTTERBUCK, P. W.
LOVERN, J. A. Fat metabolism in fishes. I. General survey of the fatty acid composition of the fats of a number of fishes, both marine and fresh-water 1978
LOVERN, J. A. Fat metabolism in fishes. II. The peritoneal, pancreatic and liver fats of the sturgeon (*Acipenser sturio*) 1985
LUCAS, C. C. and KING, E. J. The iodimetric titration of cysteine and allied substances 2076
LUGG, J. W. H. The application of phospho-18-tungstic acid (Folin's reagent) to the colorimetric determination of cysteine, cystine and related substances. I. The reduction of phospho-18-tungstic acid by various substances 2144
LUGG, J. W. H. The application of phospho-18-tungstic acid (Folin's reagent) to the colorimetric determination of cysteine, cystine and related substances. II. The determination of sulphydryl compounds and disulphides already existing in solution 2160
LYON, D. M., DUNLOP, D. M. and STEWART, C. P. Respiratory quotient in obese subjects 1107

McCANCE, R. A., *see* WATCHORN, E.
McFARLANE, W. D. Application of the sodium diethyldithiocarbamate reaction to the micro-colorimetric determination of copper in organic substances 1022
McFARLANE, W. D. The determination of iron in organic substances. I. Micro-colorimetry as ferric thiocyanate. II. Potentiometric titration with titanous sulphate 1034
McFARLANE, W. D. The alkaline hydrolysis of lecitho-vitellin with particular reference to the separation of an organic fraction containing iron and copper 1061
McFARLANE, W. D. and HAMILTON, R. C. M. On the factors influencing the blood-benzidine reaction as applied to the micro-determination of haemoglobin 1050
McGOWAN, J. P. On the fundamental nature of parathormone action 1138
McHENRY, E. W. and GAVIN, G. Histaminase. I. The histamine-histaminase reaction. II. Purification. III. Species distribution 1365
MACKENZIE, K. The biochemistry of aluminium. III. Effect of aluminium on growth and reproduction in the rat. IV. The occurrence of aluminium in the thyroid. V. Intestinal absorption of aluminium in the rabbit 833
Maclurin, supposed production of, from acacatechin (Healey) 388
MACPHERSON, N. L. Studies in the behaviour of the carbohydrates and lactic acid of the muscle of the haddock (*Gadus aeglefinus*) after death 80
Magnesium and calcium, ultrafiltration of, from human sera (Watchorn and McCance) 54
Maize, biological value of proteins of (Fixsen and Jackson) 1923
Malic acid, effect of, on deposition of liver-glycogen (Ponsford and Smedley-MacLean) 1340
Maltose, determination of, in broth and in aqueous and peptone solutions (Smith) 1459
Mammary gland, absorption of milk precursors by (Blackwood and Stirling) 357, 362; (Blackwood) 772; (Blackwood and Stirling) 778; (Blackwood and Stirling) 1127
Mammary gland, phosphorus metabolism of (Blackwood and Stirling) 778
Mammary gland, relationship of amino-acid absorption to protein synthesis in the (Blackwood) 772
MANN, P. J. G. The reduction of glutathione by a liver system 785
Mannosemonophosphate (Robison) 2191
MAPSON, L. W. Evidence of the existence of a dietary principle stimulating general growth and lactation 970

MARRIAN, G. F. and HASLEWOOD, G. A. D. The chemistry of oestrin. V. The mechanism of the conversion of trihydroxyoestrin into ketohydroxyoestrin 25
MARRIAN, G. F. and HASLEWOOD, G. A. D. Equol, a new inactive phenol isolated from the ketohydroxyoestrin fraction of mares' urine 1227
MARRIAN, G. F., *see also* ADAM, N. K.
MARRIOTT, R. H. The swelling of single collagen fibre-bundles 46
MARSHALL, P. G. The gonadotropic hormones (ρ-factors). III. Further purification and properties of the active principles 1358
MATHUR, S. N., *see* ARMITAGE, E.
MAWSON, C. A. and RITCHIE, A. D. A method for the determination of lactic acid production without destruction of the muscle 615
MEDES, G. A new error of tyrosine metabolism: tyrosinosis. The intermediary metabolism of tryosine and phenylalanine 917
MEIKLEJOHN, A. P., PASSMORE, R. and PETERS, R. A. Pyruvic acid and vitamin B_1 deficiency 1872
MELDRUM, N. U. A note on denatured globin 162
MELDRUM, N. U. The reduction of glutathione in mammalian erythrocytes 817
MELDRUM, N. U., *see also* WILLIAMSON, S. W.
Melting-point of fats and allied substances, determination of (Abbassi) 1857
Metabolic products of moulds of the *P. brevi-compactum* series (Clutterbuck, Oxford, Raistrick and Smith) 1441
Metabolism, bacterial (Hewitt) 208, 464
Metabolism, carbohydrate, in human trypanosomiasis (Wormall) 1777
Metabolism, fat, in fishes (Lovern) 1978, 1985
Metabolism, fat, of the herring (Channon and Saby) 2021
Metabolism, gaseous and nitrogenous, of rats, effect of cryptorchidism on (Korenchevsky and Dennison) 429
Metabolism in tetany (Greenwald) 954; (Morris) 1606
Metabolism, intermediary, of tyrosine and phenylalanine (Medes) 917
Metabolism, mineral, during pregnancy and lactation (Toverud and Toverud) 1424
Metabolism of animals on a carbohydrate-free diet (Hynd and Rotter) 578
Metabolism of carbohydrate after starvation (Goldblatt and Ellis) 991
Metabolism of *i*-cystine in the rat (Lawrie) 435
Metabolism of methionine and related compounds in the dog (Pirie) 2041
Metabolism of normal and tumour tissue (Dickens and Simer) 90; (Dickens and Greville) 1251, 1546
Metabolism of rats, technique for studying (Korenchevsky and Dennison) 147
Metabolism of the trigeminal ganglion (Holmes) 2005
Metabolism, phosphorus, of the mammary gland (Blackwood and Stirling) 778
Metabolism, protein, influence of gonads on (Schrire and Zwarenstein) 118, 1886
Metabolism, sulphur, of the dog (Lawrie and Pirie) 622
Metabolism, wax, in the leaves of Brussels sprout (Sahai and Chibnall) 403
Methionine, preparation of, from caseinogen (Pirie) 1270
Methionine, metabolism of, in the dog (Pirie) 2041
Methylation of wood cellulose (Bell) 590
Methylglyoxal, determination of (Clift and Cook) 1788
7-Methylindole, use of, in antimony trichloride test for vitamin A (Morton) 1197
MEYER, J. W., *see* GROEN, J.
Milk, biological value of proteins of (Fixsen and Jackson) 1923
Milk, iodimetric determination of lactose in (Fine) 569
Milk peroxidase (Elliott) 10
Milk precursors, absorption of, by the mammary gland (Blackwood and Stirling) 357, 362; (Blackwood) 772; (Blackwood and Stirling) 778; (Blackwood and Stirling) 1127
Milk-proteins, determination of (Pyne) 1006
Milk secretion, physico-chemical aspects of (Blackwood and Stirling) 1127
MILLER, E. J. and CHIBNALL, A. C. The proteins of grasses. I. Preliminary communication 392
MILLS, J. I. The vitamin C content of sheep-liver; with observations on the effects of freezing and storage 704
MOLONEY, P. J. and TAYLOR, E. M. The effect on solutions of diphtheria toxin and diphtheria antitoxin of contact with certain surfaces 1754
MOORE, T. Vitamin A and carotene. IX. Notes on the conversion of carotene to vitamin A in the cow 1
MORGAN, B. G. E., *see* KEY, K. M. *and* COWARD, K. H.
MORGAN, R. S. The interpretation of the colour match in the antimony trichloride test for vitamin A 377
MORGAN, R. S. The determination of vitamin D in the line test by measurement 1144
MORRIS, N., *see* MORRIS, S.
MORRIS, S. Metabolism in tetany 1606
MORRIS, S. and MORRIS, N. Further observations on the volatile chlorine of blood 2015
MORTON, R. A. The use of 7-methylindole in the antimony trichloride test for vitamin A 1197
MORTON, R. A., *see* COWARD, K. H.; EDISBURY, J. R.; GILLAM, A. E. *and* HEILBRON, I. H.
Mould fungi, formation of organic acids by (Suthers and Walker) 317
Mould tissue, resistant cell-wall material of (Norman and Peterson) 1946
Mould tissue, soluble carbohydrate constituents of (Norman, Peterson and Houtz) 1934
Mucilage of seed of white mustard, composition of (Bailey and Norris) 1609
Muscle, determination of lactic acid production in (Mawson and Ritchie) 615
Muscle, haddock, after death, carbohydrates and lactic acid of (Macpherson) 80
Muscle, origin of pyruvic acid in (Case) 759
Muscles, effects of pituitary on distribution of fat and glycogen in (Hynd and Rotter) 578
MUSGRAVE, F. F., *see* YOUNG, E. G.

Mustard, white, composition of mucilage of seed of (Bailey and Norris) 1609
Mystkowski, E. M. Influence of guanidine and its derivatives on the action of amylase 910

Nanavutty, S. H. Van Slyke's method of determination of acetone bodies applied to small volumes of blood and urine 1391
Nanji, H. R., *see* Buston, H. W.
Narcotics, effects of, on dehydrogenations by brain tissue (Davies and Quastel) 1672
Narcotine, as alleged precursor of vitamin C (Grant, Smith and Zilva) 1628
Nephritis, electrolyte distribution and acid-base equilibrium in serum in cases of (Greene, Wakefield, Power and Keith) 1377
Newton, W. H., *see* Gulland, J. M.
Nicol, H. Essential oils and heat absorption 658
Nielsen, E., *see* Bierring, E.
Nierenstein, M. A biological synthesis of *m*-digallic acid 1093
Nitrogenous and gaseous metabolism of rats, effect of cryptorchidism on (Korenchevsky and Dennison) 429
Nitrogenous exchange of rats, method of measurement of (Fixsen and Jackson) 1919
Norman, A. G. The biological decomposition of plant materials. VII. The nature of the residual hemicelluloses of rotted straw 573
Norman, A. G., Peterson, W. H. and Houtz, R. C. The chemistry of mould tissue. I. Soluble carbohydrate constituents 1934
Norman, A. G. and Peterson, W. H. The chemistry of mould tissue. II. The resistant cell-wall material 1946
Norris, F. W., *see* Bailey, K.

Obese subjects, respiratory quotient in (Lyon, Dunlop and Stewart) 1107
Obituary notice of A. C. Chapman 1715
Obituary notice of S. J. B. Connell 1718
Obituary notice of W. D. Halliburton 269
Obituary notice of Morna Macleod 271
Obituary notice of M. W. Onslow 915
Obituary notice of M. J. Rowlands 1718
Obituary notice of R. Stenhouse Williams 537
O'Brien, J. R. P., *see* Barnes, H.
Oestrin, chemistry of. V. (Marrian and Haslewood) 25
Oestrin derivatives, surface films of (Adam, Danielli, Haslewood and Marrian) 1233
Oils, fish-liver, reaction of, with antimony trichloride (Ender) 1118
Osmotic pressure of globin (Roche, Roche, Adair and Adair) 1811
Oxalic acid, determination of small quantities of (Dodds and Gallimore) 1242
Oxford, A. E. and Raistrick, H. Studies in the biochemistry of micro-organisms. XXV. 3 : 5-Dihydroxyphthalic acid, a new product of the metabolism of glucose by *Penicillium brevi-compactum* and related species 1902
Oxford, A. E., *see also* Clutterbuck, P. W.
Oxidase system, xanthine, accelerating effect of uric acid on the (Harrison) 472
Oxidation of uric acid, catalytic (Dobrowolska) 543
Oxidation of vitamin A *in vitro*, influence of the solvent on (Dann) 666
Oxidations by the brain (Quastel and Wheatley) 725
Oxygen uptake of brain tissue, effect of alcohol on (Robertson and Stewart) 65
Oxytocic principle of the posterior lobe of the pituitary gland (Gulland and Newton) 337

Pace, J. The formation of enterokinase from a precursor in the pancreas 640
Pace, J. The formation of enterokinase from a precursor in the pancreas: a supplementary note 1566
Page, I. H. and Young, F. G. The effect of intravenous phosphatide on the sugar excretion of the phloridzinised dog 1528
Palm oil, red, vitamin D content of (Dann) 151
Pancreas, formation of enterokinase from a precursor in the (Pace) 640
Papain, immunological reaction to (Walton and Segura) 1750
Paraffins, higher, growth of *Aspergillus versicolor* on (Hopkins and Chibnall) 133
Parathormone action, fundamental nature of (McGowan) 1138
Parathyroid glands, antigrowth factor in extracts of (Eastland, Evers and Thompson) 2123
Passmore, R., *see* Meiklejohn, A. P.
Paterson, A. R. C., *see* Bell, G. H.
Pectic acid, preparation of methyl esters of (Buston and Nanji) 2090
Pendray, G., *see* Sadler, W.
Penfold, W. J. and Sutherland, J. A note on movements and precipitations of an amphoteric colloid due to an electric field and slight electrolysis. A modified Hardy's experiment suitable for demonstration purposes 1839
Penicillin, produced from glucose by *P. chrysogenum* (Clutterbuck, Lovell and Raistrick) 1907
Penicillium brevi-compactum, formation of 3:5-dihydroxyphthalic acid from glucose by (Oxford and Raistrick) 1902
Penicillium brevi-compactum series, metabolic products of (Clutterbuck, Oxford, Raistrick and Smith) 1441
Penicillium chrysogenum, products of action of, on glucose (Clutterbuck, Lovell and Raistrick) 1907
Penicillium, species of, production of puberulic acid and an acid $C_8H_4O_6$ by, from glucose (Birkinshaw and Raistrick) 441
Pentelow, F. T. K., *see* Southgate, B. A.
Pentosan content of *Kleinia articulata* (Evans 1095
Pepsin, hydrolysis of caseinogen by (Stirling and Wishart) 1989
Permeability of vital membranes. The red blood corpuscle (Woodhouse and Pickworth) 309
Peroxidase, milk (Elliott) 10, 1281
Peroxidases of horseradish and milk, oxidations catalysed by (Elliott) 1281
Peters, R. A., *see* Barnes, H. *and* Meiklejohn, A. P.
Peterson, W. H., *see* Norman, A. G. *and* Tatum, E. L.

PETERSON, V. L., *see* WEST, E. S.
p_H chart, a (Bell and Paterson) 454
Phenylalanine, intermediary metabolism of (Medes) 917
Phenylalanine, oxidation of, with hydrogen peroxide (Raper) 2000
Phleum pratense, polysaccharide from the pollen of (Gough) 1291
Phloridzinised dog, effect of intravenous phosphatide on sugar excretion of (Page and Young) 1528
Phosphatase, bone, action of, on phosphoric esters of blood (King) 1697
Phosphate, effect of, on glucose breakdown by pneumococcus variants (Hewitt) 464
Phosphatide, intravenous, effect of, on sugar excretion of phloridzinised dog (Page and Young) 1528
Phosphatides of cocksfoot grass (Smith and Chibnall) 1345
Phosphoric esters of blood, action of bone phosphatase on (King) 1697
Phosphorus, colorimetric determination of (King) 292
Phosphorus, determination of, in presence of interfering substances (Davies and Davies) 2046
Phosphorus, inorganic, and calcium of sheep's blood, reciprocal relationship of (Fraser) 2166
Phosphorus metabolism of the mammary gland (Blackwood and Stirling) 778
Phospho-18-tungstic acid, reduction of (Lugg) 2144
Phospho-18-tungstic acid, use of, in colorimetric determination of cysteine, cystine and related substances (Lugg) 2144, 2160
Phospho-24-tungstic acid, method of checking the purity of (Barnes and Peters) 2203
PICKERING, J. W., *see* ARMITAGE, E.
PICKERSGILL, M., *see* HUME, E. M.
PICKWORTH, F. A., *see* WOODHOUSE, D. L.
Pig, body fats of (Banks and Hilditch) 298
Pigment, produced from glucose by *P. chrysogenum* (Clutterbuck, Lovell and Raistrick) 1907
PIRIE, N. W. The preparation of methionine from caseinogen 1270
PIRIE, N. W. Studies in the sulphur metabolism of the dog. XI. The metabolism of methionine and related sulphides 2041
PIRIE, N. W. and BERNAL, J. D. Cuprous glutathione. With a note on the crystallography of glutathione 75
PIRIE, N. W., *see also* LAWRIE, N. R.
Pituitary gland, anterior, composition of tissues of albino rats treated with alkaline extracts of (Bierring and Nielson) 1015
Pituitary gland, effect of, on distribution of fat and glycogen in liver and muscles of albino rats (Hynd and Rotter) 578
Pituitary gland, oxytocic principle of the posterior lobe of the (Gulland and Newton) 337
Pituitary gland, posterior, distribution of fat and glycogen after injection of extracts of (Hynd and Rotter) 1633
Plant materials, biological decomposition of (Norman) 573
Plastein, the nature of (Folley) 99
Pleurotus ostreatus, action of, on wood (Campbell) 1829
Pneumococcus variants, breakdown of glucose by (Hewitt) 464
Polyporus adustus, action of, on wood (Campbell) 1829
Polysaccharide from the pollen of Timothy grass (Gough) 1291
Polysaccharide, reserve, of fenugreek seeds (Daoud) 255
Polystictus abietinus, action of, on wood (Campbell) 1829
PONSFORD, A. P. and SMEDLEY-MACLEAN, I. The influence of succinic, fumaric, malic and acetic acids on the deposition of liver-glycogen 1340
POWER, M. H., *see* GREENE, C. H.
Pregnancy, mineral metabolism during (Toverud and Toverud) 1424
Pregnancy urine, bromine reaction of (Armstrong and Walker) 143
Prolamin, from a legume seed (Hassan and Basha) 1843
Pro-lipase, pancreatic, activation of (Woodhouse) 1512
Protein, alkali-soluble, produced from glucose by *P. chrysogenum* (Clutterbuck, Lovell and Raistrick) 1907
Protein constituent of erythrocyte membrane (Jorpes) 1488
Protein, determination of basic amino-acids in small amounts of (Rosedale and da Silva) 369
Protein metabolism, influence of gonads on (Schrire and Zwarenstein) 118, 1886
Proteins, alkali-treated, immunological properties of (Johnson and Wormall) 1202
Proteins, isoelectric point of, effect of addition of salts on (Andrzejewski) 1397
Proteins, milk, determination of (Pyne) 1006
Proteins, nitrogen content of certain (Smith, Brown and Gross) 1473
Proteins, of blood, determination of, by acid-acetone (Race) 1571
Proteins of grasses (Miller and Chibnall) 392
Proteins of wheat, maize and milk, biological values of (Fixsen and Jackson) 1923
Proteins, serum, precipitation and protection of vanadic acid by (Boyland) 1383
Proteins, solutions of, effect of denaturation on viscosity of (Loughlin and Lewis) 476
Protein—starch—amylase systems, effect of salts on (Baumgarten) 539
Protein synthesis in the mammary gland, relationship of amino-acid absorption to (Blackwood) 772
Proteolysis in tumours (Rondini) 1477
Psychotics, p_H of blood of (Hurst) 1536
Puberulic acid and an acid $C_8H_4O_6$ from metabolism of glucose by species of *Penicillium* (Birkinshaw and Raistrick) 441
PUGH, C. E. M. Iron in relation to tyrosinase 106
PYNE, G. T. The determination of milk-proteins by formaldehyde titration 1006
Pyruvic acid and vitamin B_1 deficiency (Meiklejohn, Passmore and Peters) 1872
Pyruvic acid, determination of (Case) 753; (Clift and Cook) 1788
Pyruvic acid, origin of, in muscle (Case) 759

QUASTEL, J. H. The action of dyestuffs on enzymes. III. Urease 1685
QUASTEL, J. H. and WHEATLEY, A. H. M. Oxidations by the brain 725
QUASTEL, J. H. and WHEATLEY, A. H. M. The relation of thiol compounds to glucose fermentation 2169
QUASTEL, J. H., *see also* DAVIES, D. R.
Quinones and quinols, spermicidal activity of (Gulland) 32

RABINOWITCH, I. M. The relative proportions of fermentable and non-fermentable reducing substances of hyperglycaemic bloods of diabetics without glycosuria 963
RACE, J. The determination of blood-proteins by acid-acetone 1571
Rachitogenic diet, relation of graded doses of vitamin D to ash content of bones of rats on a (Hume, Pickersgill and Gaffikin) 488
Radiography and bone analysis, comparison of, in the estimation of vitamin D (Bourdillon and Bruce) 506
RAISTRICK, H., *see* BIRKINSHAW, J. H., CLUTTERBUCK, P. W. *and* OXFORD, A. E.
RAPER, H. S. Note on the oxidation of tyrosine, tyramine and phenylalanine with hydrogen peroxide 2000
Rat unit of testicular hormone (Korenchevsky, Dennison and Kohn-Speyer) 2097
RAY, S. N., *see* HARRIS, L. J.
REA, J. L., *see* HEILBRON, I. M.
READER, V., *see* BARNES, H.
Reducing substances of hyperglycaemic bloods of diabetics without glycosuria (Rabinowitch) 963
Respiratory quotient in obese subjects (Lyon, Dunlop and Stewart) 1107
RICHARDSON, G. M. The autoxidation of dialuric acid 1959
RITCHIE, A. D., *see* MAWSON, C. A.
ROBERTSON, J. D. and STEWART, C. P. The effect of alcohol on the oxygen uptake of brain tissue 65
ROBINSON, F. A., SUTHERS, A. J. and WALKER, T. K. Some new antiseptics related to indan-1 : 3-dione 1890
ROBINSON, G. M. and ROBINSON, R. A survey of anthocyanins 1647
ROBINSON, R., *see* ROBINSON, G. M.
ROBISON, R. Hexosemonophosphoric esters: mannosemonophosphate 2191
ROCHE, A., *see* ROCHE, J.
ROCHE, J., ROCHE, A., ADAIR, G. S. and ADAIR, M. E. The osmotic pressure of globin 1811
RONDONI, P. Proteolysis in tumours 1477
ROSEDALE, J. L. and da SILVA, G. A. The amino-acids of tissues. VI. Determination of the basic amino-acids in small quantities of protein 369
ROTTER, D. L., *see* HYND, A.
Ryegrass, perennial, glyceride fatty acids of (Smith and Chibnall) 218

SABY, M. K. EL, *see* CHANNON, H. J.
SADLER, W., EAGLES, B. A. and PENDRAY, G. Cheese-ripening studies. II. The nitrogen requirement of the lactic acid bacteria 1532
SAHAI, P. N. and CHIBNALL, A. C. Wax metabolism in the leaves of Brussels sprout 403
Sakaguchi reaction, determination of arginine by use of (Jorpes and Thorén) 1504
SAMPSON, M. M., DENNISON, M. and KORENCHEVSKY, V. The absorption of nitrogen and of fat from the alimentary canal of rats kept on a vitamin A-deficient diet 1315
SAMPSON, M. M. and KORENCHEVSKY, V. The influence of vitamin A deficiency on male rats in paired feeding experiments 1322
SAMPSON, M. M. and KORENCHEVSKY, V. Vitamin A deficiency in castrated male rats 1542
SAMPSON, M. M., *see also* KORENCHEVSKY, V.
SAUNDERS, J. A. A method for the isolation of guanidine 801
SCHALIT, R., *see* KORENCHEVSKY, V.
SCHRIRE, I. and ZWARENSTEIN, H. The influence of the gonads on protein metabolism. I. Urinary creatinine after castration 118
SCHRIRE, I. and ZWARENSTEIN, H. The influence of the gonads on protein metabolism. II. The effect of injections of saline suspensions of testes and testicular extracts on urinary creatinine after castration 1886
Secretin, chemical nature of (Cunningham) 1081
SEGURA, C. M., *see* WALTON, R. P.
SELBY, D. L., *see* HARDING, V. J.
Serum, human, ultra-filtration of calcium and magnesium from (Watchorn and McCance) 54
Serum-models, reaction of, with lead compounds (Jowett) 2108
Serum, reaction of, with lead compounds (Jowett) 2108
Serum, use of carbon dioxide retention of, in measurement of tissue glycolysis (Dickens and Šimer) 90
SHAPIRO, B. G. and ZWARENSTEIN, H. The influence of the administration of arginine and histidine on the excretion of creatinine 1880
SHERIF, M. A. F., *see* HOLMES, E. G.
SHORE, A., *see* VICKERY, H. B.
da SILVA, G. A., *see* ROSEDALE, J. L.
ŠIMER, F., *see* DICKENS, F.
Sinalbin as an indicator, use of (Harrison) 88
SINODA, O. and KODERA, S. The chemistry of cooking. II. On the critical temperature in cooking the sweet potato 650
Skeletal tissue, proportion of, in insects (Buxton) 829
SMEDLEY-MACLEAN, I., *see* PONSFORD, A. P.
SMITH, G., *see* CLUTTERBUCK, P. W.
SMITH, J. A. B. and CHIBNALL, A. C. The glyceride fatty acids of forage grasses. I. Cocksfoot and perennial ryegrass 218
SMITH, J. A. B. and CHIBNALL, A. C. The phosphatides of forage grasses. I. Cocksfoot 1345
SMITH, M. L. The determination of glucose and maltose in aqueous solution and in broth and peptone solutions 1459
SMITH, M. L. The effect of heat on sugar solutions used for culture media 1467
SMITH, M. L., BROWN, A. M. and GROSS, C. Note on the nitrogen content of certain proteins 1473
SMITH, S., *see* GRANT, R. L.

Smolts, causes of death of, in Tees estuary (Southgate, Pentelow and Bassindale) 273
Sobotka, H. and Goldberg, A. Choleic acids 555
Sobotka, H. and Goldberg, A. Choleic acids. V. The separation of optical antipodes by means of co-ordination compounds 905
Sobotka, H. and Kahn, J. Choleic acids. IV. Keto-enol tautomerism and co-ordination compounds 898
Sorbitol, occurrence of, in marine algae (Haas and Hill) 987
Southgate, B. A., Pentelow, F. T. K., and Bassindale, R. An investigation into the causes of death of salmon and sea trout smolts in the estuary of the river Tees 273
Spectra, absorption, of substances derived from vitamin A (Edisbury, Gillam, Heilbron and Morton) 1164
Speer, N. E., *see* Kernot, J. C.
Spermicidal activity of quinones and quinols (Gulland) 32
Spiegel-Adolf, M. Physico-chemical studies of lipoids in their relations to salts, drugs and proteins 2183
Starch—amylase—protein systems, effect of salts on (Baumgarten) 539
Starvation, metabolism of carbohydrate after (Goldblatt and Ellis) 991
Stedman, E. and Stedman, E. Studies on the relationship of chemical constitution and physiological action. IV. The inhibitory action of certain synthetic urethanes on the activity of esterases 1214
Stedman, E., Stedman, E. and Easson, L. H. Choline-esterase. An enzyme present in the blood-serum of the horse 2056
Steiner, A., *see* West, E. S.
Stephenson, M. and Stickland, L. H. Hydrogenlyases. Bacterial enzymes liberating molecular hydrogen . 712
Stewart, C. P., *see* Lyon, D. M., *and* Robertson, J. D.
Stickland, L. H., *see* Stephenson, M.
Stirling, J. D. and Wishart, G. M. The hydrolysis of caseinogen by pepsin and by trypsin-kinase 1989
Stirling, J. D., *see also* Blackwood, J. H.
Straw, rotted, residual hemicellulose of (Norman) 537
Streptococci, haemolytic, lactic acid production by (Hewitt) 208
Sturgeon, peritoneal, pancreatic and liver fats of (Lovern) 1985
Succinic acid, effect of, on deposition of liver-glycogen (Ponsford and Smedley-MacLean) 1340
Sulphydryl compounds, colorimetric determination of (Lugg) 2160
Sugar in blood and lactic acid in brain, relation of (Holmes and Sherif) 381
Sugar, fermentable, of normal and starvation urine, chemical nature of (West and Steiner) 1742
Sugar solutions used for culture media, effect of heat on (Smith) 1467
Sugars, fermentable and non-fermentable, factors affecting the excretion of, in urine (West, Lange and Peterson) 1728
Sugars of normal urine, effect of hydrolysis on (Hassan and Ayyadi) 1851
Sugars, reducing, of urine, determination of (West and Peterson) 1720
Sulphur, neutral, and ethereal sulphate, effect of *iso*barbituric acid on excretion of (Lawrie and Pirie) 622
Sumner, J. B. and Kirk, J. S. Is there a co-enzyme for urease? 551
Suprarenal cortex, vitamin C in (Harris and Ray) 2067
Suprarenal gland of ox, antiscorbutic activity of cortex of (Zilva) 2182
Surface films of oestrin derivatives (Adam, Danielli, Haslewood and Marrian) 1233
Sutherland, J., *see* Penfold, W. J.
Suthers, A. J. and Walker, T. K. The mechanism of the formation of organic acids by mould fungi. I. The action of *Aspergillus niger* on sodium hexosediphosphate in the presence of toluene 317
Suthers, A. J., *see also* Robinson, F. A.
Swelling of single collagen fibre-bundles (Marriott) 46
Svirbely, J. L. and Szent-Györgyi, A. The chemical nature of vitamin C 865
Szent-Györgyi, A., *see* Svirbely, J. L.

Tatum, E. L., Peterson, W. H. and Fred, E. B. Effect of associated growth on forms of lactic acid produced by certain bacteria 846
Taylor, E. M., *see* Moloney, P. J.
Tees estuary, causes of death of smolts in (Southgate, Pentelow and Bassindale) 273
Termites, cellulose from intestinal flagellates of (Trager) 1762
Testes, suspension of, and testicular extracts, effect of injection of, on urinary creatinine after castration (Schrire and Zwarenstein) 1886
Testicular hormone preparations, assay of (Korenchevsky) 413
Testicular hormone, the rat unit of (Korenchevsky, Dennison and Kohn-Speyer) 2097
Testicular hormone, yield of, influence of freshness of testes and of desiccation of testicular tissue on (Korenchevsky, Schalit and Graetz) 423
Tetany, metabolism in (Greenwald) 954; (Morris) 1606
Thiol compounds, relation of, to glucose fermentation (Quastel and Wheatley) 2169
Thompson, J. H., *see* Eastland, C. J.
Thorén, S., *see* Jorpes, E.
Thyroid, occurrence of aluminium in (Mackenzie) 833
Timothy grass, polysaccharide from the pollen of (Gough) 1291
Tissue glycolysis, use of carbon dioxide retention of serum in measurement of (Dickens and Simer) 90
Tissues, amino-acids of (Rosedale and da Silva) 369
Toverud, K. U. and Toverud, G. Studies on the mineral metabolism during pregnancy and lactation. II 1424
Toverud, G., *see* Toverud, K. U.

TRAGER, W. A cellulase from the symbiotic intestinal flagellates of termites and of the roach, *Cryptocercus punctulatus* 1762
Trametes pini, action of, on wood (Campbell) 1829
Trihydroxyoestrin, conversion of, into ketodihydroxyoestrin (Marrian and Haslewood) 25
Triose dehydrogenase (Clift and Cook) 1804
TRUSZKOWSKI, R. Uricase and its action. V. Further examination of ox-kidney uricase 285
Trypanosomiasis, human, carbohydrate metabolism in (Wormall) 1777
Trypsin-kinase, hydrolysis of caseinogen by (Stirling and Wishart) 1989
Tubercle bacillus, specific carbohydrate of (Gough) 248
Tumours, proteolysis in (Rondini) 1477
Tyramine, oxidation of, with hydrogen peroxide (Raper) 2000
Tyrosinase, iron in relation to (Pugh) 106
Tyrosine, intermediary metabolism of (Medes) 917
Tyrosine, oxidation of, with hydrogen peroxide (Raper) 2000
Tyrosinosis (Medes) 917

Urate gels (Young and Musgrave) 941
Urea, colorimetric method for direct determination of, in urine (Barrett and Jones) 1246
Urease, action of dyestuffs on (Quastel) 1685
Urease, question of a co-enzyme for (Sumner and Kirk) 551
Urethanes, inhibitory action of, on activity of esterases (Stedman and Stedman) 1214
Uric acid, accelerating action of, on xanthine oxidase system (Harrison) 472
Uric acid, catalytic oxidation of (Dobrowolska) 543
Uricase, ox-kidney (Truszkowski) 285
Urine, bromine reaction of pregnancy (Armstrong and Walker) 143
Urine, determination of acetone bodies in small volumes of (Nanavutty) 1391
Urine, determination of reducing sugars of (West and Peterson) 1720
Urine, direct colorimetric determination of urea in (Barrett and Jones) 1246
Urine, factors affecting the excretion of fermentable and non-fermentable sugars in (West, Lange and Peterson) 1728
Urine, normal and starvation, chemical nature of fermentable sugar of (West and Steiner) 1742
Urine, normal, effect of hydrolysis on sugars of (Hassan and Ayyadi) 1851
Urine, preparation of gonadotropic hormones from (Funk and Zefirow) 619
van den Bergh reaction, bilirubin and the (Fowweather) 165
van den Bergh reaction, direct, of a pigment from bile (Griffiths) 1155
Vanadic acid, precipitation and protection of, by serum-proteins (Boyland) 1383
VICKERY, H. B. and SHORE, A. The basic amino-acids of crystalline egg-albumin 1101
Viscosity of solutions of egg-albumin, effect on, of the addition of electrolytes (Loughlin) 1557
Viscosity of solutions of proteins, effect of denaturation on (Loughlin and Lewis) 476
Vitamin A, absorption of nitrogen and fat from the alimentary canal of rats on a diet deficient in (Sampson, Dennison and Korenchevsky) 1315
Vitamin A, absorption spectra of substances derived from (Edisbury, Gillam, Heilbron and Morton) 1164
Vitamin A, conversion of carotene into, in the cow (Moore) 1
Vitamin A deficiency, effect of, on male rats in paired feeding experiments (Sampson and Korenchevsky) 1322
Vitamin A deficiency in castrated male rats (Sampson and Korenchevsky) 1542
Vitamin A, determination of, in cod-liver oils by measurements of absorption in the ultraviolet (Coward, Dyer and Morton) 1593
Vitamin A, highly active preparations of, characteristics of (Heilbron, Heslop, Morton, Webster, Rea and Drummond) 1178
Vitamin A, interpretation of the colour match in the antimony trichloride test for (Morgan) 377
Vitamin A, oxidation of, *in vitro* (Dann) 666
Vitamin A, structure of (Heilbron, Morton and Webster) 1194
Vitamin A tests, variation in growth response of rats in (Coward) 691
Vitamin A, transmission of, from parents to young in mammals (Dann) 1072
Vitamin A, use of 7-methylindole in antimony trichloride test for (Morton) 1197
Vitamin B_1 deficiency, pyruvic acid and (Meiklejohn, Passmore and Peters) 1872
Vitamin B_1, International Standard for (Chick and Jackson) 1223
Vitamin B_4 (Barnes, O'Brien and Reader) 2035
Vitamin C, chemical nature of (Svirbely and Szent-Györgyi) 865
Vitamin C content of sheep-liver, effects of freezing and storage on (Mills) 704
Vitamin C, narcotine as alleged precursor of (Grant, Smith and Zilva) 1628
Vitamin C, presence of, in suprarenal cortex (Harris and Ray) 2067
Vitamin C, *see also* Antiscorbutic
Vitamin D, comparison of radiography and bone analysis in estimation of (Bourdillon and Bruce) 506
Vitamin D content of red palm oil (Dann) 151
Vitamin D, determination of (Key and Morgan) 196; (Hume, Pickersgill and Gaffikin) 488; (Bourdillon and Bruce) 506; (Bourdillon, Bruce and Webster) 522; (Coward, Key and Morgan) 1585
Vitamin D, determination of, in the line test by measurement (Morgan) 1144
Vitamin D, production of, in a glow discharge (Askew, Bourdillon and Webster) 814
Vitamin D, relation of graded doses of, to ash content of bones of rats on rachitogenic diet (Hume, Pickersgill and Gaffikin) 488
Vitamin D, stability of preparations of (Bourdillon, Bruce and Webster) 522

Vitamin tests, a stock diet for rats bred for (Coward, Cambden and Lee) 679

WAKEFIELD, E. G., *see* GREENE, C. H.
WALKER, E., *see* ARMSTRONG, A. R.
WALKER, T. K., *see* ROBINSON, F. A. *and* SUTHERS, A. J.
WALTON, R. P. and SEGURA, C. M. The immunological reaction to the enzyme papain 1750
WATCHORN, E. and MCCANCE, R. A. Inorganic constituents of cerebrospinal fluid. II. The ultrafiltration of calcium and magnesium from human sera 54
Wax metabolism in the leaves of the Brussels sprout (Sahai and Chibnall) 403
WEBSTER, E. T., *see* HEILBRON, I. M.
WEBSTER, T. A., *see* ASKEW, F. A. *and* BOURDILLON, R. B.
WEIDEMANN, C. (the late). Studies on the chemical nature of the unsaponifiable fraction of fish-liver oils. II. Cod-liver oil. Edited by F. Ender 264
WEST, E. S., LANGE, A. C. and PETERSON, V. L. The sugars of urine. II. Factors affecting the excretion of fermentable and non-fermentable sugars in urine 1728
WEST, E. S. and PETERSON, V. L. The sugars of urine. I. Determination of the reducing sugars of urine 1720
WEST, E. S. and STEINER, A. The sugars of urine. III. The chemical nature of the fermentable sugar of normal and starvation urine 1742
WESTALL, R. G., *see* CHIBNALL, A. C.
Wheat, biological value of proteins of (Fixsen and Jackson) 1923
WHEATLEY, A. H. M., *see* QUASTEL, J. H.
White rots of wood, chemistry of (Campbell) 1829
WILLIAMSON, S. W. and MELDRUM, N. U. A note on the isolation of ergothioneine from blood 815
WISHART, G. M., *see* STIRLING, J. D.
Wood cellulose (Bell) 590, 598, 609
WOODHOUSE, D. L. Investigations in enzyme action directed towards the study of the biochemistry of cancer. The activation of pancreatic pro-lipase 1512
WOODHOUSE, D. L. and PICKWORTH, F. A. Permeability of vital membranes. The red blood corpuscle 309
WOODWARD, G. E. and FRY, E. G. The hyperglycaemia of cancer 889
WORMALL, A. Carbohydrate metabolism in human trypanosomiasis 1777
WORMALL, A., *see also* JOHNSON, L. R.

Xanthine oxidase system, accelerating effect of uric acid on the (Harrison) 472

Yeast, selective fermentation of glucose and fructose by (Dawson) 531
YOUNG, E. G. and MUSGRAVE, F. F. The formation and decomposition of urate gels 941
YOUNG, F. G., *see also* PAGE, I. H.
YUDKIN, J. Hydrogenlyases. II. Some factors concerned in the production of the enzymes 1859

ZEFIROW, P., *see* FUNK, C.
ZILVA, S. S. The non-specificity of the phenol-indophenol reducing capacity of lemon juice and its fractions as a measure of their antiscorbutic capacity 1624
ZILVA, S. S. The antiscorbutic activity of the cortex of the suprarenal gland of the ox 2182
ZILVA, S. S., *see also* CRANE, M. B., GRANT, R. L. *and* JOHNSON, S. W.
ZWARENSTEIN, H., *see* SCHRIRE, I. *and* SHAPIRO, B. G.

CAMBRIDGE: PRINTED BY WALTER LEWIS, M.A., AT THE UNIVERSITY PRESS